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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,586	09/19/2005	Koichi Imai	Y13-4	1137
	7590 04/15/200 H SIEGEL, LLP		EXAMINER	
LACKENBAC	H SIEGEL BUILDING		WILLIAMS, AARON	
1 CHASE ROAD SCARSDALE, NY 10583			ART UNIT	PAPER NUMBER
			4135	
			MAIL DATE	DELIVERY MODE
			04/15/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/549,586	IMAI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Aaron Williams	4135			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 12 M This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) 1-4 and 6-13 is/are w 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine	ithdrawn from consideration.				
10) ☐ The drawing(s) filed on 9/19/05 is/are: a) ☐ accomplicant may not request that any objection to the orange Replacement drawing sheet(s) including the correction of the orange of the example. The oath or declaration is objected to by the Example of the ex	drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/19/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

Art Unit: 2873

DETAILED ACTION

Election/Restrictions

1. Applicant's election of claim 5 in the reply filed on 3/12/2008 is acknowledged.

Because applicant did not distinctly and specifically point out the supposed errors in the

restriction requirement, the election has been treated as an election without traverse

(MPEP § 818.03(a)).

2. Claims 1-4 and 6-13 are withdrawn from further consideration pursuant to 37

CFR 1.142(b) as being drawn to a nonelected groups, there being no allowable generic

or linking claim. Election was made without traverse in the reply filed on 3/12/2008.

Priority

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

4. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over EP 1239562
A2 to Shinko Electric Industries Co., herein referred to as Shinko, and further in view of US Patent Grant Publication 2004/0108205 to Larsen, herein referred to as Larsen.

Regarding claim 5 Shinko discloses in at least figures 1, 4a, and 4b (paragraphs [0036]-[0029]), a discharge tube that is formed by disposing a plurality of discharge electrodes (2, 3 see abstract) separated by a discharge gap (40 see abstract) followed by encapsulating in an airtight envelope (1 see abstract) together with a discharge gas (not labeled), but it fails to teach, characterized in that the discharge electrodes are made of zirconium copper obtained by containing zirconium in oxygen-free copper.

However, Larsen teaches construction of *discharge electrodes* (refer to paragraphs [0007] and [0230]) *are made of zirconium copper obtained by containing zirconium in oxygen-free copper.* Refer paragraph [0133] for the further details about construction.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to have utilized discharge electrodes of Shinko to be made of zirconium copper obtained by containing zirconium in oxygen-free copper, since Larsen teaches using discharge electrodes are made of zirconium copper obtained by containing zirconium in oxygen-free copper to dissipate heat from the metal layers.

Refer to paragraph [0007].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron Williams whose telephone number is (571) 270-5279. The examiner can normally be reached on Monday thru Friday 7:00 to 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Brewster can be reached on (571)272-1854. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Aaron Williams/ Examiner, Art Unit 4135

/Jessica T Stultz/ Primary Examiner, Art Unit 4135